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DATE MAILED: 12/18/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION	
09/892,862	06/28/2001	Naoya Hashimoto	Q65135	3124	
7590 12/18/2003			EXAMINER		
SUGHRUE, MION, ZINN, MACPEAK & SEAS			ADDISON, KAREN B		
	mia Avenue, N.W.				
Washington, DC 20037			ART UNIT	PAPER NUMBER	
			2834		

Please find below and/or attached an Office communication concerning this application or proceeding.

					KU
	App	lication No.	App	licant(s)	
Office Action Summer	09/	892,862	HAS	НІМОТО ЕТ	AL.
Office Action Summary	Exa	miner	Art	Unit	
		en B Addison	283		
The MAILING DATE of this commu Period for Reply	nication appears (on the cover sheet wi	th the corres	pondence ad	dress
A SHORTENED STATUTORY PERIOD I THE MAILING DATE OF THIS COMMUM Extrasion of time may be available under the provision If the period for reply specified above, the less than thirty, If NO period for reply specified above, the maximum Failure to reply within the set or extended period for reply Any reply received by the Office later than there are armed patent term adjustment. See 37 CFR 1.704(b). Status	NICATION. us of 37 CFR 1.136(a). In munication. (30) days, a reply within a statutory period will apply by will, by statute, cause	n no event, however, may a re the statutory minimum of thirt or and will expire SIX (6) MON the application to become AB	eply be timely file y (30) days will be THS from the ma ANDONED (35 t	d e considered time! iling date of this c J.S.C. § 133).	y. ommunication.
1) Responsive to communication(s) fil	ed on 21 August	2003.			
2a) This action is FINAL.	2b) This action	is non-final.			
Since this application is in condition closed in accordance with the practice.	n for allowance ex tice under <i>Ex par</i>	ccept for formal matte te Quayle, 1935 C.D	ers, prosecu . 11, 453 O.0	tion as to the 3. 213.	merits is
Disposition of Claims					
4) ⊠ Claim(s) 1-8 is/are pending in the a 4a) Of the above claim(s) is/a 5) □ Claim(s) is/are allowed. 6) ☒ Claim(s) 1-8 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restri	are withdrawn fro				
Application Papers	and and are	.on requirement.			
9) The specification is objected to by the	ne Examiner.				
10) The drawing(s) filed on is/are	e: a) accepted	or b) objected to b	y the Exami	iner.	
Applicant may not request that any obje	ection to the drawin	g(s) be held in abeyan	ce. See 37 C	FR 1.85(a).	
Replacement drawing sheet(s) including	g the correction is r	equired if the drawing(s) is objected	to. See 37 CF	R 1.121(d)
11) The oath or declaration is objected t	o by the Examine	er. Note the attached	Office Actio	n or form PT	O-152.
Priority under 35 U.S.C. §§ 119 and 120					
12) △ Acknowledgment is made of a claim a) △ All b) □ Some * c) □ None of: 1. ☑ Certified copies of the priority 2. □ Certified copies of the priority 3. □ Copies of the certified copies of the priority 4. □ Copies of the certified copies application from the Internatic 5. □ See the attached detailed Office active since a specific reference was include 37 CFR 1.78. a) □ The translation of the foreign la 14) □ Acknowledgment is made of a claim reference was included in the first ser	or documents have or documents have of the priority do onal Bureau (PCT on for a list of the for domestic prior ed in the first sent inguage provision for domestic prior	been received. been received in Arcuments have been received in Arcuments have been reuted to the second of the second of the specifical and polication has be ity under 35 U.S.C. §	oplication No received in t received. § 119(e) (to attion or in an een received §§ 120 and/o	his National a provisional Application or 121 since	applicatio Data Shee
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Parent Drawing Review (F		4) Interview St			

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior at are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1-2 and 5-8, rejected under 35 U.S.C. 103(a) as being unpatentable over APA in view of Teshima (5658660).

APA substantially teaches the claim invention except that is does not show the bobbin outer molding and conducting wires compose of an electrically-insulating material resistant to permeation by sulfur and means for preventing sulfur compounds from permeating the electrically insulating layer and attendantly reducing the formation of sulfur compounds on a surface of the conducting wire, thereby suppressing the reduction in adhesive strength of the electrically insulating layer to said conducting wire, wire breakage, and short circuiting between the conducting wires.

Teshima discloses a magnetic core for a motor in fig.2 comprising a electrically insulating layer resistant to permeation made of a material (thermal setting resin, epoxy resin, phenol resin) coated on the bobbin (15), outer molding (11), and conductive wires (12) having means for preventing sulfur compounds from permeating the electrically insulating layer and for preventing sulfur compounds and organosulfur compounds from permeating the electrically-insulating layer and attendantly reducing the formation of

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sulfur compounds on the surface of the conducting wire, thereby suppressing the reduction in adhesive strength of the electrically insulating layer to the conducting wire, wire breakage, and short circuiting between the conducting wires by means of thermal setting resin for the purpose of preventing corrosion(col2. Line 35 and col. 8 line 46). Therefore, it would have been obvious to one having ordinary skill in the art at time the invention was made to modify the electromagnetic device of APA with the electrical insulating layer of Teshima for purpose preventing corrosion.

Claims 3-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over APA
in view of Teshima as applied to claims 1-2 and 5-8 above, and further in view of Irwin
(5710475).

As stated above in paragraph 2, APA substantially teaches the claim invention and Teshima an electrically-insulating material (thermal setting epoxy resin and phenot) resistant to permeation by sulfur and means for preventing sulfur compounds from permeating the electrically insulating layer and attendantly reducing the formation of sulfur compounds on a surface of the conducting wire, bobbin and out molding thereby suppressing the reduction in adhesive strength of the electrically insulating layer to said conducting wire, wire breakage, and short circuiting between the conducting wires. However, neither APA nor Teshima teaches an electrically- insulation layer made of a polyamide resin.

Irwin teaches an electrically insulating layer having high thermal conductivity for a stator, or turbine generator resistant to permeation made of a thermo- resin material (polyamide) for the purpose of providing high thermal conductivity and excellent

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processability. Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the electric motor device of APA with thermal setting resin of Teshima and Irwin for the purpose of providing high thermal

conductivity.

It also would have been obvious to one having ordinary skill in the art at the time the invention was made to select a thermosetting resin as the material of the insulating layer since it has been held to be within the general skill of a worker in the art to select a known material on the basis of suitability for the intended use as a matter of obvious

design choice. In re leshin,125 USPQ 416.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karen B Addison whose telephone number is 703-306-

 $5855. \ \,$ The examiner can normally be reached on 8:00 to 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on 703-308-1317. The fax phone number for the organization where this application or proceeding is assigned is 703-305-3431.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956

KBA 12/1/03 BURTON S. MIGGELING PRIMARY EXAMINER